

APRIL/MAY 2024

23USBT24 — VERMITECHNOLOGY (SEC II)

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Write the role of earthworms in soil fertility?
2. Define black gold.
3. What is vermiculture bed?
4. Write the common worm feed stocks?
5. Write the differences between batch and continuous flow system.
6. Define window composting.
7. Define NPK content in vermicomposting.
8. What is vermifilter?
9. Define vermiculture.
10. Name any four microorganisms present in vermiwash.



SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Enumerate three ecological categories of earthworm.

Or

- (b) Explain briefly about collection and preservation of earthworm.

12. (a) Describe composting materials and its preliminary treatment.

Or

- (b) What are the factors affecting culturing of earthworm?

13. (a) Explain expandable worm tower assembly method and indoor dual bin method.

Or

- (b) Write the physical, chemical and biological properties of vermicompost.

14. (a) Discuss about trickling filter vermicomposting.

Or

- (b) Describe the raised cage and dual pit method.

15. (a) Explain the advantages of vermicompost.

Or

- (b) Write about the scope of vermiculture in self-employment?

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Name the suitable earthworm species for vermicompost. Describe the morphological and anatomical characters of *Lampito mauritti*.

17. Explain the culturing techniques of earthworm.

18. Explain the small scale techniques of vermicomposting.

19. Explain large scale techniques of vermicomposting.

20. What is vermiwash? Write its chemical composition? Explain its steps and preparation process.